

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/784,300A
Source: IFW16
Date Processed by STIC: 12/28/2006

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 12/28/2006

PATENT APPLICATION: US/10/784,300A

TIME: 09:27:56

Input Set : A:\16163-039004.txt

Output Set: N:\CRF4\12282006\J784300A.raw

```

4 <110> APPLICANT: BLACK, Roy A.
5     PAXTON, Raymond J.
6     BODE, Wolfram
7     NASKOS, Klaus
8     FERNANDEZ-CATALAN, Carlos
9     CHEN, James Ming
10    LEVIN, Jeremy Ian
13 <120> TITLE OF INVENTION: Crystalline TNF-alpha-converting enzyme
14    and uses thereof
16 <130> FILE REFERENCE: 16163-039004
18 <140> CURRENT APPLICATION NUMBER: US 10/784,300A
19 <141> CURRENT FILING DATE: 2004-02-24
21 <150> PRIOR APPLICATION NUMBER: US 09/244,984
22 <151> PRIOR FILING DATE: 1999-02-04
24 <150> PRIOR APPLICATION NUMBER: US 60/073,709
25 <151> PRIOR FILING DATE: 1998-02-04
27 <150> PRIOR APPLICATION NUMBER: US 60/135,499
28 <151> PRIOR FILING DATE: 1998-03-30
30 <150> PRIOR APPLICATION NUMBER: US 60/117,476
31 <151> PRIOR FILING DATE: 1999-01-27
33 <160> NUMBER OF SEQ ID NOS: 10
35 <170> SOFTWARE: FastSEQ for Windows Version 4.0
37 <210> SEQ ID NO: 1
38 <211> LENGTH: 10
39 <212> TYPE: PRT
40 <213> ORGANISM: Artificial Sequence
42 <220> FEATURE:
43 <223> OTHER INFORMATION: Illustrative peptide
45 <400> SEQUENCE: 1
46 Pro Leu Ala Gln Ala Val Arg Ser Ser Ser
47 1           5           10
50 <210> SEQ ID NO: 2
51 <211> LENGTH: 8
52 <212> TYPE: PRT
53 <213> ORGANISM: Artificial Sequence
55 <220> FEATURE:
56 <223> OTHER INFORMATION: Illustrative peptide
58 <400> SEQUENCE: 2
59 Gly Ser His His His His His His
60 1           5
63 <210> SEQ ID NO: 3
64 <211> LENGTH: 11
65 <212> TYPE: PRT

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66 <213> ORGANISM: Artificial Sequence
68 <220> FEATURE:
69 <223> OTHER INFORMATION: Consensus motif
71 <220> FEATURE:
72 <221> NAME/KEY: VARIANT
73 <222> LOCATION: 3, 4, 6, 7, 9, 10
74 <223> OTHER INFORMATION: Xaa = any amino acid
76 <400> SEQUENCE: 3
W--> 77 His Glu Xaa Xaa His Xaa Xaa Gly Xaa Xaa His
78 1 5 10
81 <210> SEQ ID NO: 4
82 <211> LENGTH: 203
83 <212> TYPE: PRT
84 <213> ORGANISM: Crotalus adamanteus
86 <400> SEQUENCE: 4
87 Glu Gln Asn Leu Pro Gln Arg Tyr Ile Glu Leu Val Val Val Ala Asp
88 1 5 10 15
89 Arg Arg Val Phe Met Lys Tyr Asn Ser Asp Leu Asn Ile Ile Arg Thr
90 20 25 30
91 Arg Val His Glu Ile Val Asn Ile Ile Asn Glu Phe Tyr Arg Ser Leu
92 35 40 45
93 Asn Ile Arg Val Ser Leu Thr Asp Leu Glu Ile Trp Ser Gly Gln Asp
94 50 55 60
95 Phe Ile Thr Ile Gln Ser Ser Ser Ser Asn Thr Leu Asn Ser Phe Gly
96 65 70 75 80
97 Glu Trp Arg Glu Arg Val Leu Leu Thr Arg Lys Arg His Asp Asn Ala
98 85 90 95
99 Gln Leu Leu Thr Ala Ile Asn Phe Glu Gly Lys Ile Ile Gly Lys Ala
100 100 105 110
101 Tyr Thr Ser Ser Met Cys Asn Pro Arg Ser Ser Val Gly Ile Val Lys
102 115 120 125
103 Asp His Ser Pro Ile Asn Leu Leu Val Ala Val Thr Met Ala His Glu
104 130 135 140
105 Leu Gly His Asn Leu Gly Met Glu His Asp Gly Lys Asp Cys Leu Arg
106 145 150 155 160
107 Gly Ala Ser Leu Cys Ile Met Arg Pro Gly Leu Thr Pro Gly Arg Ser
108 165 170 175
109 Tyr Glu Phe Ser Asp Asp Ser Met Gly Tyr Tyr Gln Lys Phe Leu Asn
110 180 185 190
111 Gln Tyr Lys Pro Gln Cys Ile Leu Asn Lys Pro
112 195 200
115 <210> SEQ ID NO: 5
116 <211> LENGTH: 287
117 <212> TYPE: PRT
118 <213> ORGANISM: Homo sapiens
120 <400> SEQUENCE: 5
121 Pro Glu Glu Leu Val His Arg Val Lys Arg Arg Ala Asp Pro Asp Pro
122 1 5 10 15
123 Met Lys Asn Thr Cys Lys Leu Leu Val Val Ala Asp His Arg Phe Tyr

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```

124          20          25          30
125 Arg Tyr Met Gly Arg Gly Glu Glu Ser Thr Thr Thr Asn Tyr Leu Ile
126          35          40          45
127 Glu Leu Ile Asp Arg Val Asp Asp Ile Tyr Arg Asn Thr Ser Trp Asp
128          50          55          60
129 Asn Ala Gly Phe Lys Gly Tyr Gly Ile Gln Ile Glu Gln Ile Arg Ile
130 65          70          75          80
131 Leu Lys Ser Pro Gln Glu Val Lys Pro Gly Glu Lys His Tyr Asn Met
132          85          90          95
133 Ala Lys Ser Tyr Pro Asn Glu Glu Lys Asp Ala Trp Asp Val Lys Met
134          100         105         110
135 Leu Leu Glu Gln Phe Ser Phe Asp Ile Ala Glu Glu Ala Ser Lys Val
136          115         120         125
137 Cys Leu Ala His Leu Phe Thr Tyr Gln Asp Phe Asp Met Gly Thr Leu
138          130         135         140
139 Gly Leu Ala Tyr Val Gly Ser Pro Arg Ala Asn Ser His Gly Gly Val
140 145         150         155         160
141 Cys Pro Lys Ser Gly Ser Ser Gly Gly Ile Cys Glu Lys Ala Tyr Tyr
142          165         170         175
143 Ser Pro Val Gly Lys Lys Asn Ser Lys Leu Tyr Ser Asp Gly Lys Lys
144          180         185         190
145 Lys Glu Ala Asp Leu Val Thr Thr His Glu Leu Gly His Asn Phe Gly
146          195         200         205
147 Ala Glu His Asp Pro Asp Gly Leu Ala Glu Cys Ala Pro Asn Glu Asp
148          210         215         220
149 Gln Gly Gly Lys Tyr Val Met Tyr Pro Ile Ala Val Ser Gly Asp His
150 225         230         235         240
151 Glu Asn Asn Lys Met Phe Ser Asn Cys Ser Lys Gln Ser Ile Tyr Lys
152          245         250         255
153 Thr Ile Glu Ser Lys Ala Gln Glu Cys Phe Gln Glu Arg Ser Asn Lys
154          260         265         270
155 Val Cys Gly Asn Ser Arg Val Asp Glu Gly Glu Glu Cys Asp Pro
156          275         280         285
159 <210> SEQ ID NO: 6
160 <211> LENGTH: 276
161 <212> TYPE: PRT
162 <213> ORGANISM: Homo sapiens
164 <400> SEQUENCE: 6
165 Gln Glu Lys His Ala Ile Asn Gly Pro Glu Leu Leu Arg Lys Arg Arg
166 1          5          10          15
167 Thr Thr Ser Ala Glu Lys Asn Thr Cys Gln Leu Tyr Ile Gln Thr Asp
168          20          25          30
169 His Leu Phe Phe Lys Tyr Tyr Gly Thr Arg Glu Ala Val Ile Ala Gln
170          35          40          45
171 Ile Ser Ser His Val Lys Ala Ile Asp Thr Ile Tyr Gln Thr Thr Asp
172          50          55          60
173 Phe Ser Gly Ile Arg Asn Ile Ser Phe Met Val Lys Arg Ile Arg Ile
174 65          70          75          80
175 Asn Thr Thr Ala Asp Glu Lys Asp Pro Thr Asn Pro Phe Arg Phe Pro

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176          85          90          95
177 Asn Ile Ser Val Glu Lys Phe Leu Glu Leu Asn Ser Glu Gln Asn His
178          100          105          110
179 Asp Asp Tyr Cys Leu Ala Tyr Val Phe Thr Asp Arg Asp Phe Asp Asp
180          115          120          125
181 Gly Val Leu Gly Leu Ala Trp Val Gly Ala Pro Ile Tyr Leu Asn Ser
182          130          135          140
183 Gly Leu Thr Ser Thr Ser Leu Asn Thr Gly Ile Ile Thr Val Lys Asn
184 145          150          155          160
185 Tyr Gly Lys Thr Ile Leu Thr Lys Gln Asn Tyr Gly Ser His Val Pro
186          165          170          175
187 Pro Lys Val Ser His Ile Thr Phe Ala His Glu Val Gly His Asn Phe
188          180          185          190
189 Gly Ser Pro His Asp Ser Gly Thr Glu Cys Thr Pro Gly Glu Ser Lys
190          195          200          205
191 Asn Leu Gly Gln Lys Glu Asn Gly Asn Tyr Ile Met Tyr Ala Arg Ala
192          210          215          220
193 Thr Ser Gly Asp Lys Leu Asn Asn Asn Lys Phe Ser Leu Cys Ser Ile
194 225          230          235          240
195 Arg Asn Ile Ser Gln Val Leu Glu Lys Lys Arg Asn Asn Cys Phe Val
196          245          250          255
197 Glu Ser Gly Gln Pro Ile Cys Gly Asn Gly Met Val Glu Gln Gly Glu
198          260          265          270
199 Glu Cys Asp Cys
200          275
203 <210> SEQ ID NO: 7
204 <211> LENGTH: 824
205 <212> TYPE: PRT
206 <213> ORGANISM: Homo sapiens
208 <400> SEQUENCE: 7
209 Met Arg Gln Ser Leu Leu Phe Leu Thr Ser Val Val Pro Phe Val Leu
210 1          5          10          15
211 Ala Pro Arg Pro Pro Asp Asp Pro Gly Phe Gly Pro His Gln Arg Leu
212          20          25          30
213 Glu Lys Leu Asp Ser Leu Leu Ser Asp Tyr Asp Ile Leu Ser Leu Ser
214          35          40          45
215 Asn Ile Gln Gln His Ser Val Arg Lys Arg Asp Leu Gln Thr Ser Thr
216          50          55          60
217 His Val Glu Thr Leu Leu Thr Phe Ser Ala Leu Lys Arg His Phe Lys
218 65          70          75          80
219 Leu Tyr Leu Thr Ser Ser Thr Glu Arg Phe Ser Gln Asn Phe Lys Val
220          85          90          95
221 Val Val Val Asp Gly Lys Asn Glu Ser Glu Tyr Thr Ala Lys Trp Gln
222          100          105          110
223 Asp Phe Phe Thr Gly His Val Val Gly Glu Pro Asp Ser Arg Val Leu
224          115          120          125
225 Ala His Ile Arg Asp Asp Asp Val Ile Ile Arg Ile Asn Thr Asp Gly
226          130          135          140
227 Ala Glu Tyr Asn Ile Glu Pro Leu Trp Arg Phe Val Asn Asp Thr Lys

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```

228 145          150          155          160
229 Asp Lys Arg Met Leu Val Tyr Lys Ser Glu Asp Ile Lys Asn Val Ser
230          165          170          175
231 Arg Leu Gln Ser Pro Lys Val Cys Gly Tyr Leu Lys Val Asp Asn Glu
232          180          185          190
233 Glu Leu Leu Pro Lys Gly Leu Val Asp Arg Glu Pro Pro Glu Glu Leu
234          195          200          205
235 Val His Arg Val Lys Arg Arg Ala Asp Pro Asp Pro Met Lys Asn Thr
236          210          215          220
237 Cys Lys Leu Leu Val Val Ala Asp His Arg Phe Tyr Arg Tyr Met Gly
238 225          230          235          240
239 Arg Gly Glu Glu Ser Thr Thr Thr Asn Tyr Leu Ile Glu Leu Ile Asp
240          245          250          255
241 Arg Val Asp Asp Ile Tyr Arg Asn Thr Ser Trp Asp Asn Ala Gly Phe
242          260          265          270
243 Lys Gly Tyr Gly Ile Gln Ile Glu Gln Ile Arg Ile Leu Lys Ser Pro
244          275          280          285
245 Gln Glu Val Lys Pro Gly Glu Lys His Tyr Asn Met Ala Lys Ser Tyr
246          290          295          300
247 Pro Asn Glu Glu Lys Asp Ala Trp Asp Val Lys Met Leu Leu Glu Gln
248 305          310          315          320
249 Phe Ser Phe Asp Ile Ala Glu Glu Ala Ser Lys Val Cys Leu Ala His
250          325          330          335
251 Leu Phe Thr Tyr Gln Asp Phe Asp Met Gly Thr Leu Gly Leu Ala Tyr
252          340          345          350
253 Val Gly Ser Pro Arg Ala Asn Ser His Gly Gly Val Cys Pro Lys Ala
254          355          360          365
255 Tyr Tyr Ser Pro Val Gly Lys Lys Asn Ile Tyr Leu Asn Ser Gly Leu
256          370          375          380
257 Thr Ser Thr Lys Asn Tyr Gly Lys Thr Ile Leu Thr Lys Glu Ala Asp
258 385          390          395          400
259 Leu Val Thr Thr His Glu Leu Gly His Asn Phe Gly Ala Glu His Asp
260          405          410          415
261 Pro Asp Gly Leu Ala Glu Cys Ala Pro Asn Glu Asp Gln Gly Gly Lys
262          420          425          430
263 Tyr Val Met Tyr Pro Ile Ala Val Ser Gly Asp His Glu Asn Asn Lys
264          435          440          445
265 Met Phe Ser Asn Cys Ser Lys Gln Ser Ile Tyr Lys Thr Ile Glu Ser
266          450          455          460
267 Lys Ala Gln Glu Cys Phe Gln Glu Arg Ser Asn Lys Val Cys Gly Asn
268 465          470          475          480
269 Ser Arg Val Asp Glu Gly Glu Glu Cys Asp Pro Gly Ile Met Tyr Leu
270          485          490          495
271 Asn Asn Asp Thr Cys Cys Asn Ser Asp Cys Thr Leu Lys Glu Gly Val
272          500          505          510
273 Gln Cys Ser Asp Arg Asn Ser Pro Cys Cys Lys Asn Cys Gln Phe Glu
274          515          520          525
275 Thr Ala Gln Lys Lys Cys Gln Glu Ala Ile Asn Ala Thr Cys Lys Gly
276          530          535          540

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/784,300A

DATE: 12/28/2006
TIME: 09:27:57

Input Set : A:\16163-039004.txt
Output Set: N:\CRF4\12282006\J784300A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 3,4,6,7,9,10

VERIFICATION SUMMARY

DATE: 12/28/2006

PATENT APPLICATION: US/10/784,300A

TIME: 09:27:57

Input Set : A:\16163-039004.txt

Output Set: N:\CRF4\12282006\J784300A.raw

L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0